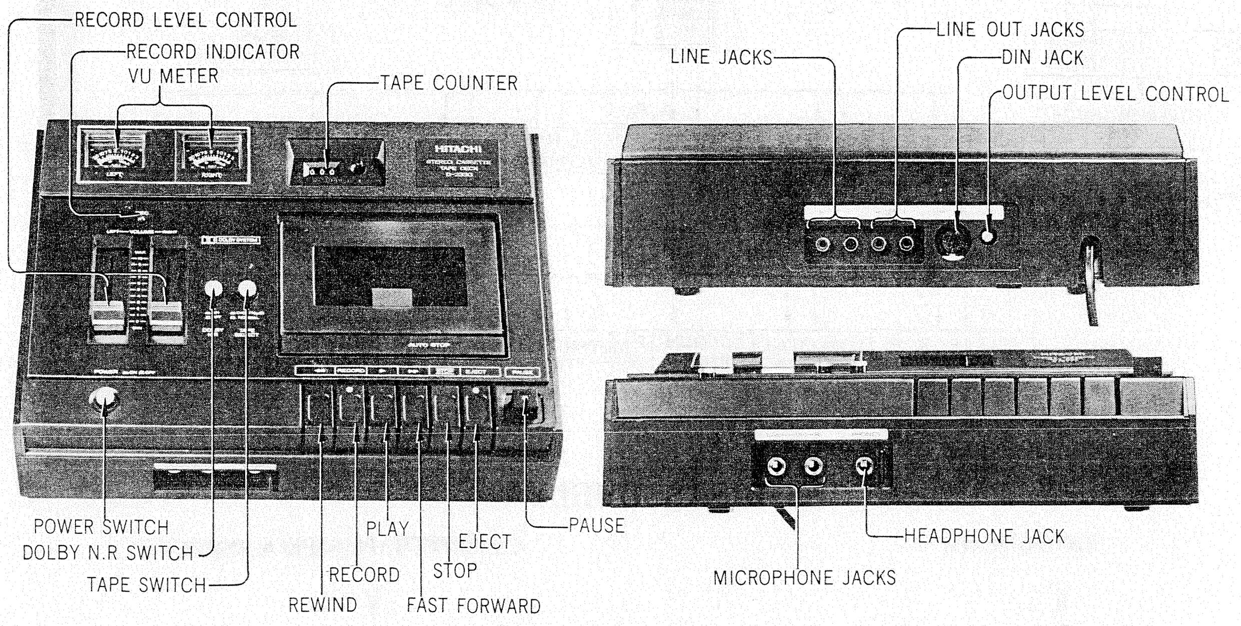
HITACHI

D-2330

SERVICE MANUAL

No. 777


RECORD LEVEL CONTROL
RECORD INDICATOR
VU METER
TAPE COUNTER
LINE JACKS
LINE OUT JACKS
DIN JACK
OUTPUT LEVEL CONTROL
POWER SWITCH
DOLBY N.R SWITCH
TAPE SWITCH
PLAY
EJECT
PAUSE
RECORD
STOP
REWIND
FAST FORWARD
HEADPHONE JACK
MICROPHONE JACKS

SPECIFICATIONS

GENERAL SECTION

Semi Conductor	8 IC, 2 FET, 11 Transistor(9 Tr. For USA), 22 Diode
Power Supply	220V, 50Hz(For Ⓕ,Ⓢ)100~110V/115~127V/200~220V/230~250V 50/60Hz (For 4 voltage area, W) 100~110V/115~127V/200~220V/230~250V, 50/60Hz (For BS) 120V, 60Hz (For USA)
Power Consumption	9 W (6W For Ⓕ, Ⓢ Ⓝ, Ⓓ, (SEV))
Dimension	9.2(H)×33.5(W)×22.3(D)cm (9.2×31.9×22.3cm For Ⓕ, Ⓝ, Ⓢ, Ⓓ, (SEV), Ⓦ, (BS))
Weight	2.8 kg

AMPLIFIER SECTION

Input……MIC. { Impedance: 300Ω~5kΩ
Sensitivity: 0.25 mV

LINE IN { Impedance : 100kΩ or more
Maximum Sensitivity: 80 mV

DIN IN { Impedance: 2 kΩ
Sensitivity: 0.25 mV

Output load..Impedance PHONES : 8Ω~2kΩ
LINE OUT: 50kΩ or more
DIN OUT : 470kΩ (W, BS, Ⓕ, Ⓢ, Ⓝ, Ⓓ, (SEV))
50kΩ or more (USA)

Output Level ……0.5V or more

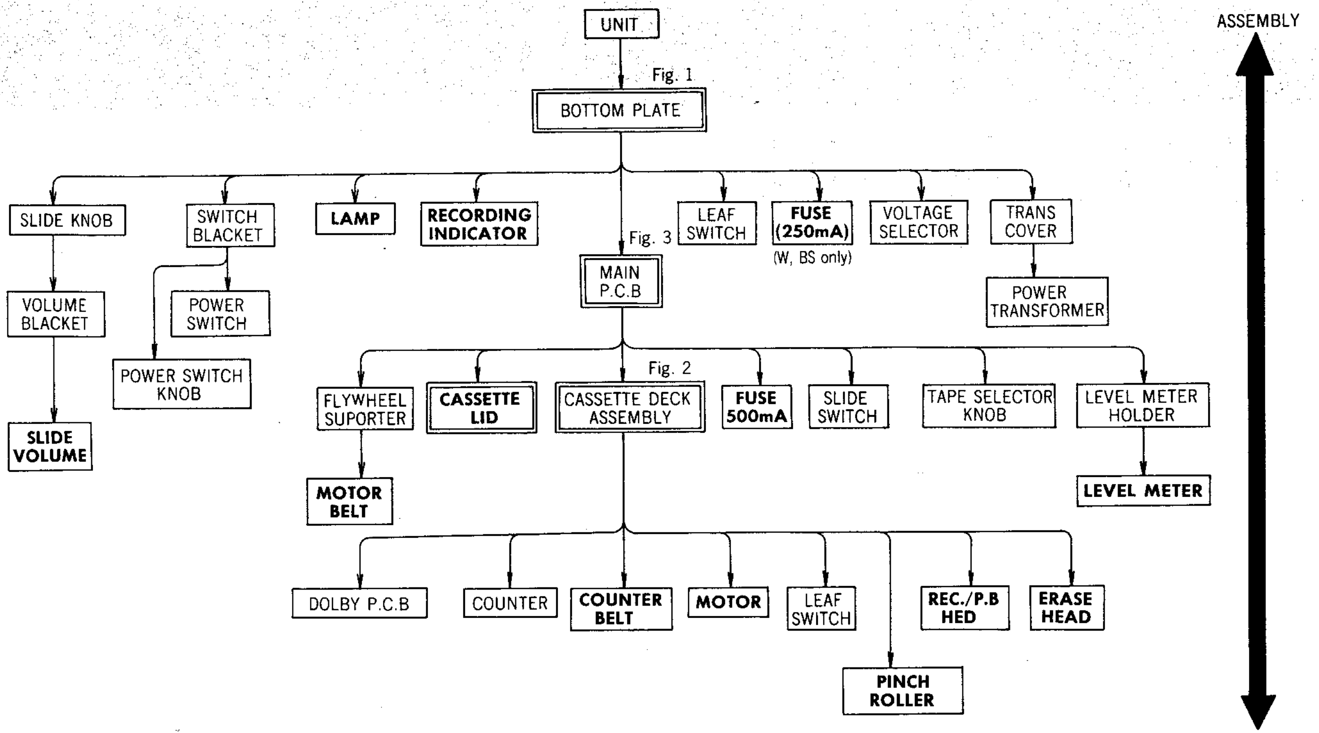
TAPE DECK SECTION

Tape	Cassette Tape
Tape Speed	1-7/8 ips (4.75 cm/sec.)
Recording System and Bias Frequency	AC Bias, 57 kHz
Erase System	AC Erase
Track System	4 Track 2 Channel
Frequency Response	Normal Tape : 40~12,000Hz Chrome Tape: 40~14,000Hz
Signal to Noise Ratio	50 dB (Dolby OFF) 58 dB (Dolby ON)
Motor	DC Motor(Electrical Governer Control)
Wow and Flutter	0.18 % WRMS
Channel Separation	25 dB or more
Erase Ratio	60 dB or more
Cross Talk	60 dB or more

STEREO CASSETTE DECK

August 1975

REMOVING PROCESS


UNIT
Fig. 1
BOTTOM PLATE
SLIDE KNOB
SWITCH BLACKET
LAMP
RECORDING INDICATOR
Fig. 3
LEAF SWITCH
FUSE (250mA)
(W, BS only)
VOLTAGE SELECTOR
TRANS COVER
VOLUME BLACKET
POWER SWITCH
POWER SWITCH KNOB
SLIDE VOLUME
MAIN P.C.B
POWER TRANSFORMER
Fig. 2
FLYWHEEL SUPORTER
CASSETTE LID
CASSETTE DECK ASSEMBLY
FUSE 500mA
SLIDE SWITCH
TAPE SELECTOR KNOB
LEVEL METER HOLDER
MOTOR BELT
LEVEL METER
DOLBY P.C.B
COUNTER
COUNTER BELT
MOTOR
LEAF SWITCH
REC./P.B HED
ERASE HEAD
PINCH ROLLER
ASSEMBLY
DISASSEMBLY

DISASSEMBLY

BOTTOM PLATE

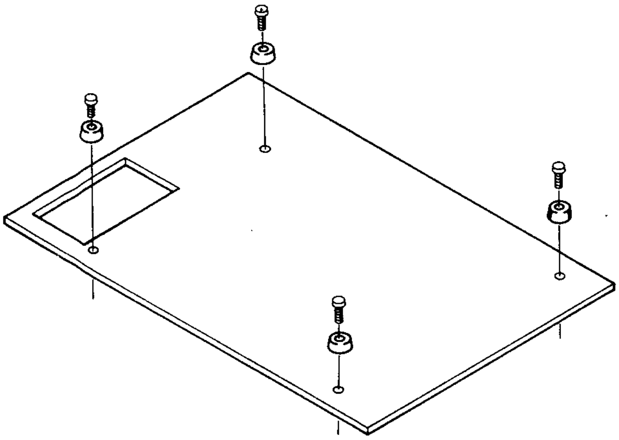


Fig. 1

CASSETTE TAPE DECK ASSEMBLY

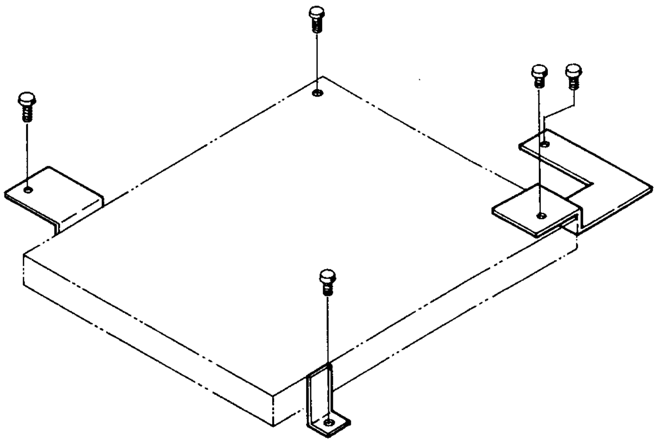


Fig. 2

MAIN P.C.B

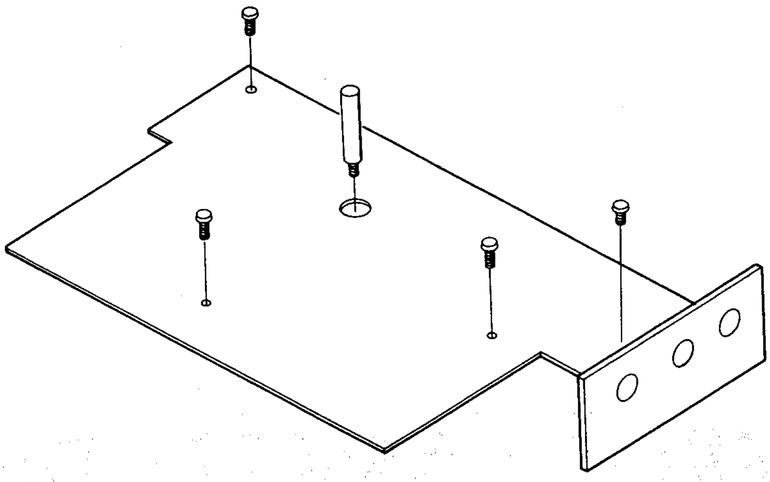


Fig. 3

LUBRICATION

Lubricate one or two drops of machine oil to rotating point or lubricate grease to sliding point. Lubricate the respective parts listed below once every 1,000 hours or once a year under normal conditions of use. Avoid oiling then excessively, or rotation may become irregular because of oil splashes.

Motor shaft bearing	Oil
Capstan shaft bearing	Oil
Pinch roller shaft bearing	Oil

ADJUSTMENT

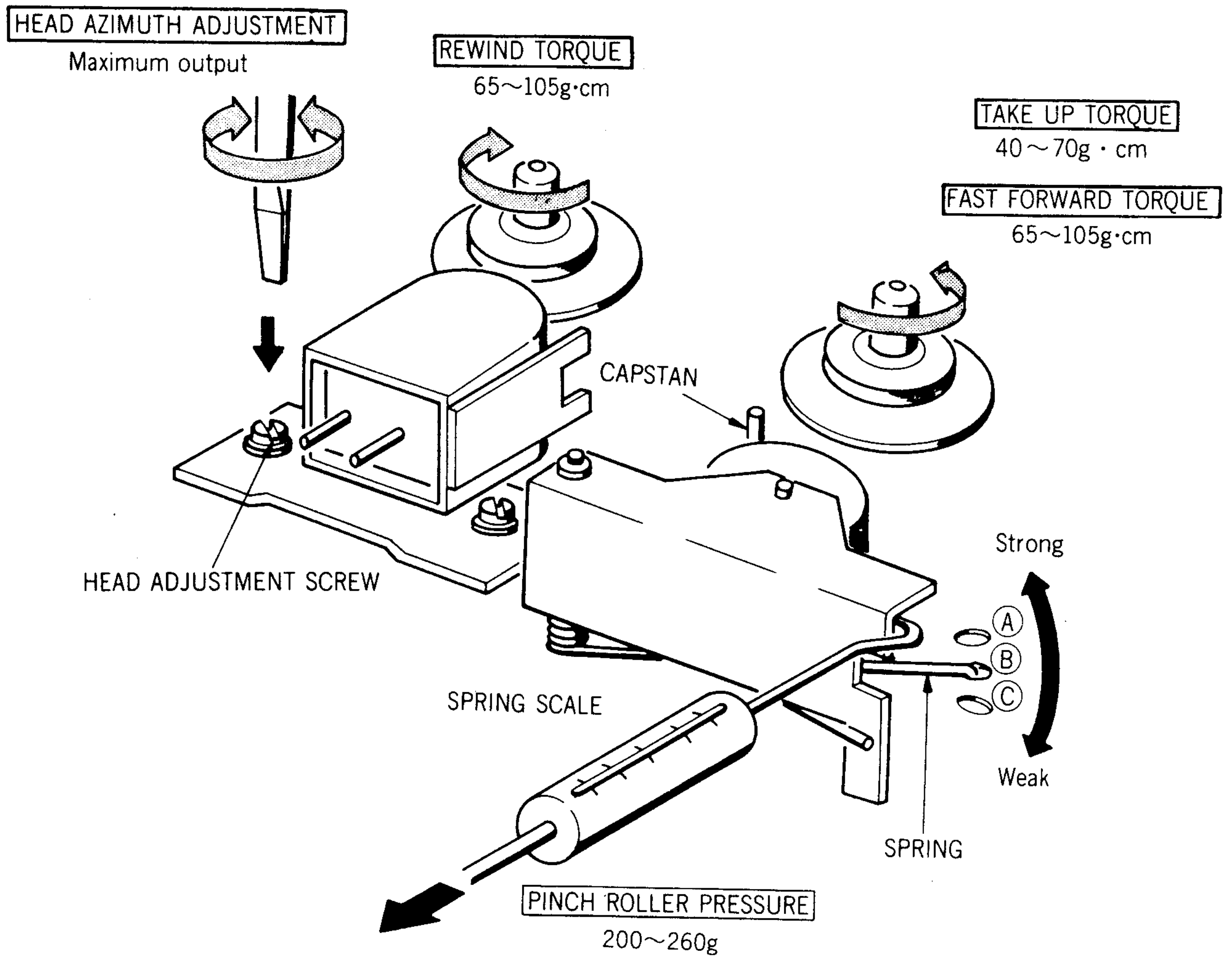

HEAD AZIMUTH ADJUSTMENT
Maximum output
REWIND TORQUE
65~105g·cm
TAKE UP TORQUE
40~70g · cm
FAST FORWARD TORQUE
65~105g·cm
CAPSTAN
HEAD ADJUSTMENT SCREW
Strong
Ⓐ
Ⓑ
Ⓒ
Weak
SPRING SCALE
SPRING
PINCH ROLLER PRESSURE
200~260g

Fig. 4

HEAD AZIMUTH

(1) Remove the head cover and load instrument with standard tape for head azimuth adjustment.

(2) Set the level control volume (right and left channel) to max.

(3) Observe the VU meter.

(4) Adjust head adjustment screw for maximum output.

PINCH ROLLER PRESSURE

Adjust by changing the hooking position of the spring so that spring scale reads 200~260g when the pinch roller departs from the capstan.

NOTE

To increase the pressure: hook the spring in hole Ⓐ.

To reduce the pressure : hook the spring in hole Ⓒ.

TURN TABLE TORQUE

1. Take up torque 40~70g·cm (In PLAY mode)
2. Fast forward torque 65~105 g.cm or more (In F.F. mode)
3. Rewind torque 65~105g·cm or more (In REW. mode)

ADJUSTMENT

Before adjustment

1. Clean REC./P.B head.
2. Set volume control to maximum.
3. Set tape selector to normal.
4. Set to OFF DOLBY N·R switch.

Sequence	Mode	Test Tape Recorded Level or Frequency	Connection		Adjust for	
			Meter	to	Adjust	Indication
1. Clean REC./P.B head. 2. Set volume control to maximum. 3. Set tape selector to normal. 4. Set DOLBY switch to OFF.						
TAPE-SPEED	Playback	f: 3000Hz	Frequency Counter	LINE OUT (L) or (R)	RT001 (in governer P.C.B)	3000Hz±30Hz
PLAYBACK LEVEL		f: 400Hz v: 20m maxwell	VTVM	5	RT2L	1.1V±0.5dB
				6	RT2R	
VU METER LEVEL			Observe VU meter		RT4L	Set pointer of VU meter to ■ mark on VU meter scale.
					RT4R	
BIAS TRAP	Recording	———	VTVM	1	L4L	Minimum
				2	L4R	
BIAS VOLTAGE				3	RT1L	13V (Don't use shield wire)
				4	RT1R	

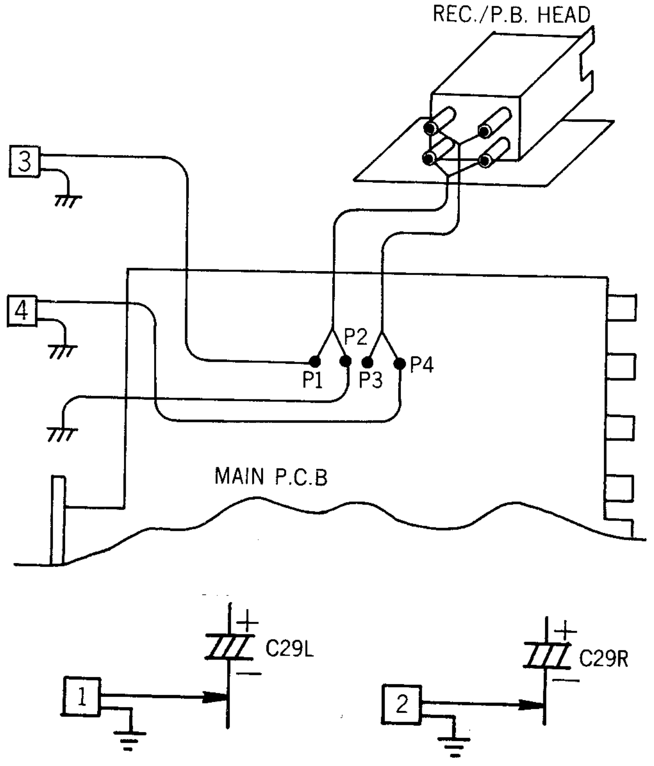

REC./P.B. HEAD
3
4
P2
P1
P3
P4
MAIN P.C.B
C29L
1
C29R
2

Fig. 5

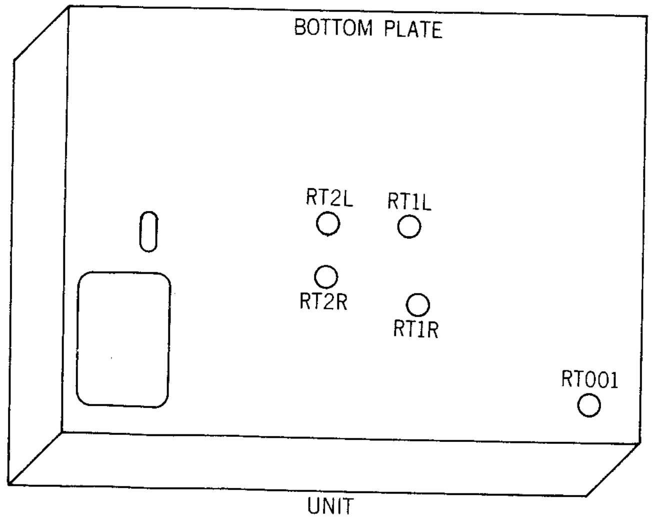

BOTTOM PLATE
RT2L
RT1L
RT2R
RT1R
RT001
UNIT

Fig. 6

Seque
1. 2. 3.
RECORDI SENSITIV
Dolby circu
Check dolby circuit
19kHz FILTER

ADJUSTMENT

Before adjustment

1. Clean REC./P.B head.
2. Set volume control to maximum.
3. Set tape selector to normal.
4. Set to OFF DOLBY N·R switch.

Sequence	Mode	Test Tape Recorded Level or Frequency	Connection		Adjust for	
			Meter	to	Adjust	Indication
1. Clean REC./P.B head. 2. Set volume control to maximum. 3. Set tape selector to normal. 4. Set DOLBY switch to OFF.						
TAPE-SPEED	Playback	f: 3000Hz	Frequency Counter	LINE OUT (L) or (R)	RT001 (in governer P.C.B)	3000Hz±30Hz
PLAYBACK LEVEL		f: 400Hz v: 20m maxwell	VTVM	5	RT2L	1.1V±0.5dB
				6	RT2R	
VU METER LEVEL			Observe VU meter		RT4L	Set pointer of VU meter to ■ mark on VU meter scale.
					RT4R	
BIAS TRAP	Recording	———	VTVM	1	L4L	Minimum
				2	L4R	
BIAS VOLTAGE				3	RT1L	13V (Don't use shield wire)
				4	RT1R	

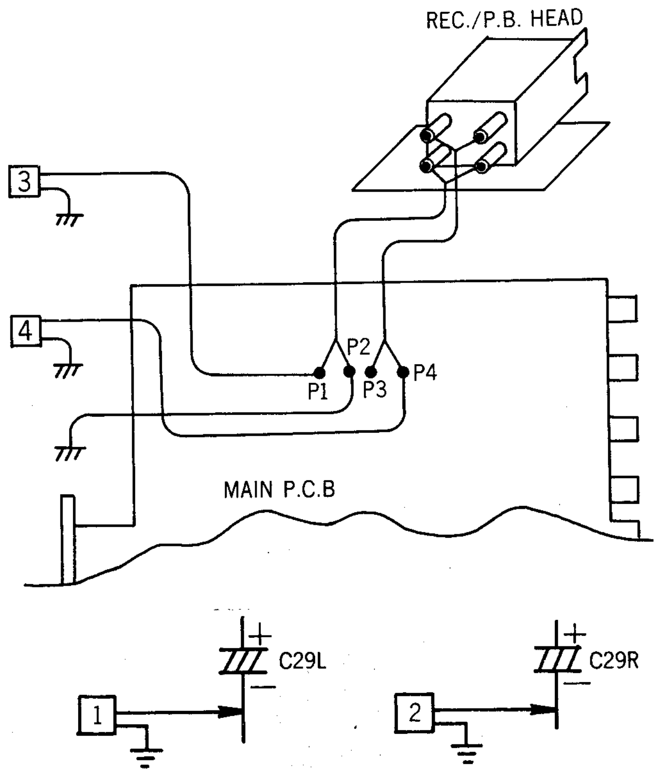


Fig. 5

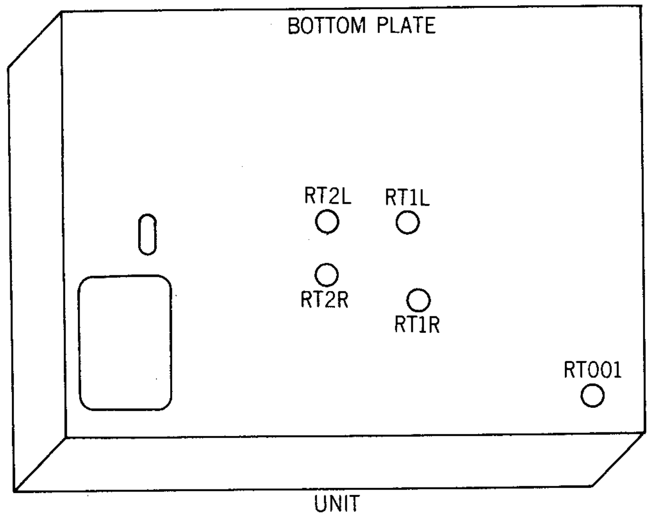
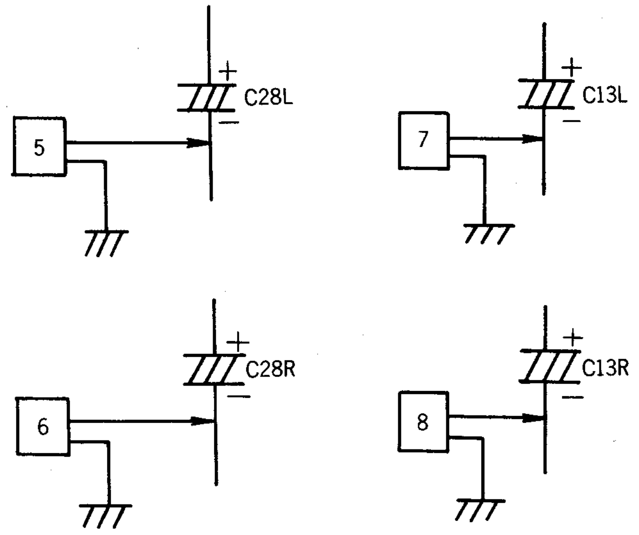
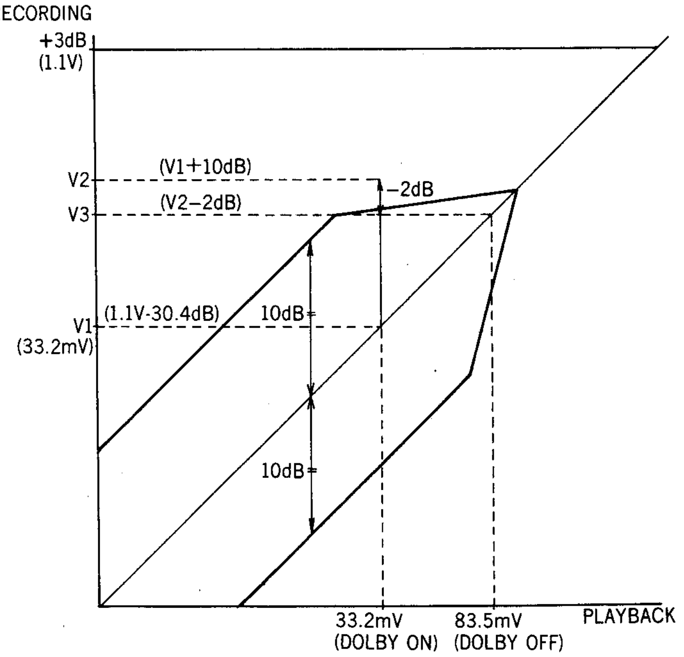


Fig. 6

Sequence		Setting		Connection				Adjust for	
				INPUT		OUTPUT			
		Mode	Dolby switch	Meter	to	Meter	from	Adjust	Indication
1. Set volume control to maximum. 2. Set tape selector to normal. 3. Use normal tape.									
RECORDING SENSITIVITY		Recording and Playback	OFF	Recording		Playback			
				Oscillator f: 400Hz	LINE IN (L)	Obserbe VU meter		RT3L	Recording level (OVU) ‖ Playback level (OVU)
					LINE IN (R)			RT3R	
Dolby circuit	①	Connect short clip between gate of Q101L,R and ground.				RT101L: turn the fully counterclockwise. RT101R: turn the fully clockwise.			
		Recording	OFF	Oscillator f: 5kHz	LINE IN (L)	VTVM	5	Osc. output	1.1 V (+3dB)
					LINE IN (R)		6		
	②			Same as ①					V₁=1.1V−30.4dB
	③		ON	Same as ②	Same as ①			RT102L	V₂=V₁ +10dB (V₂ ≑105mV)
								RT102R	
	④	Disconnect short clip							
	⑤	Same as ③						RT101L	V₃=V₂ −2dB (V₃ ≑83.5mV)
								RT101R	
	⑥	Connect short clip between gate of Q101L,R and ground							
		Same as ③						Check to be V₂	
Check dolby circuit	⑦	Disconnect short clip							
	⑧	Playback	OFF	Oscillator f: 5kHz	7	Same as ①			83.5mV
					8				
	⑨		ON	Same as ⑥					Check to be 33.2mV
19kHz FILTER		Recording	OFF	Oscillator f: 19kHz v: −24dB	LINE IN (L)	Same as ①		L1L	Minimum
					LINE IN (R)			L1R	

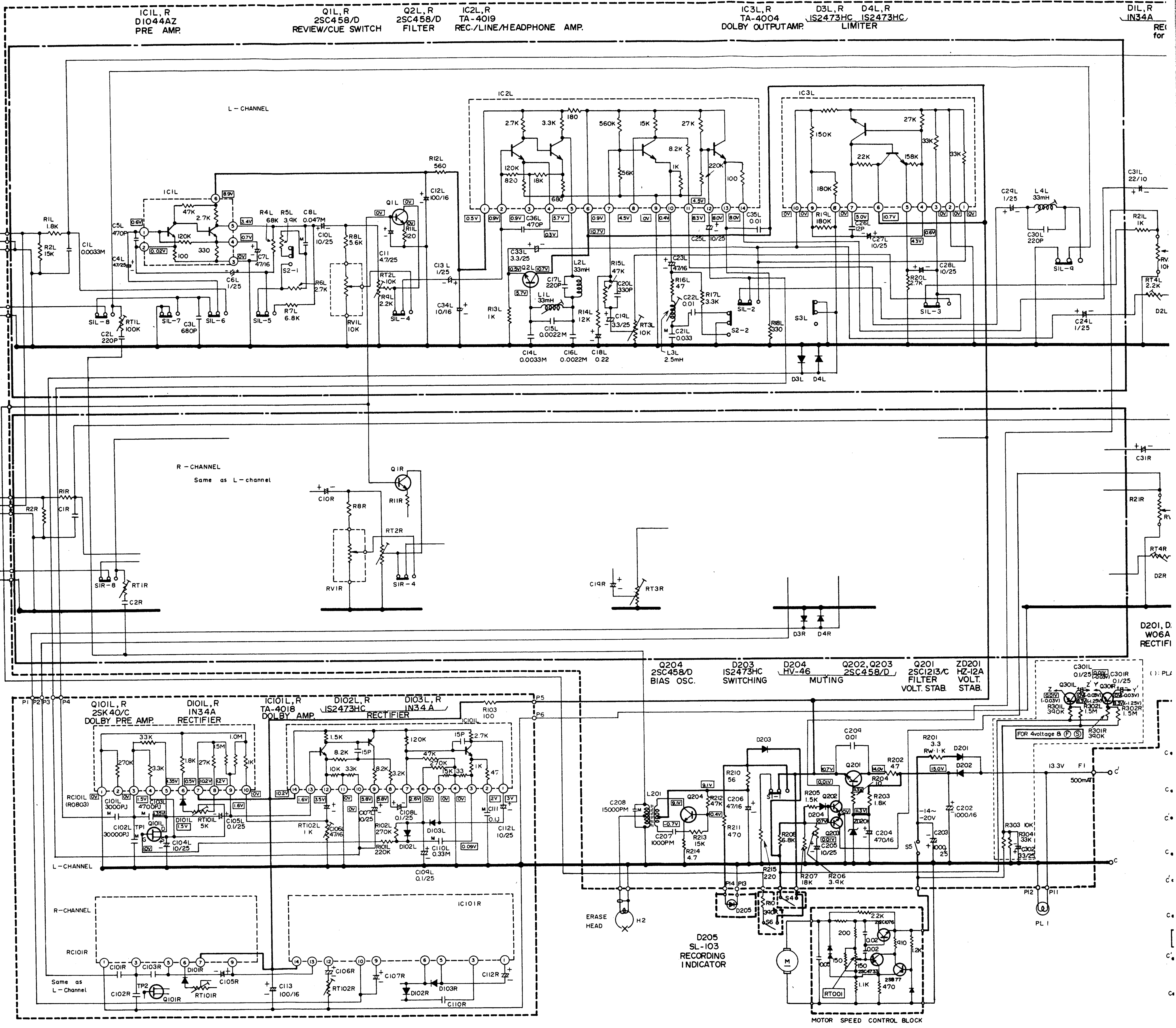


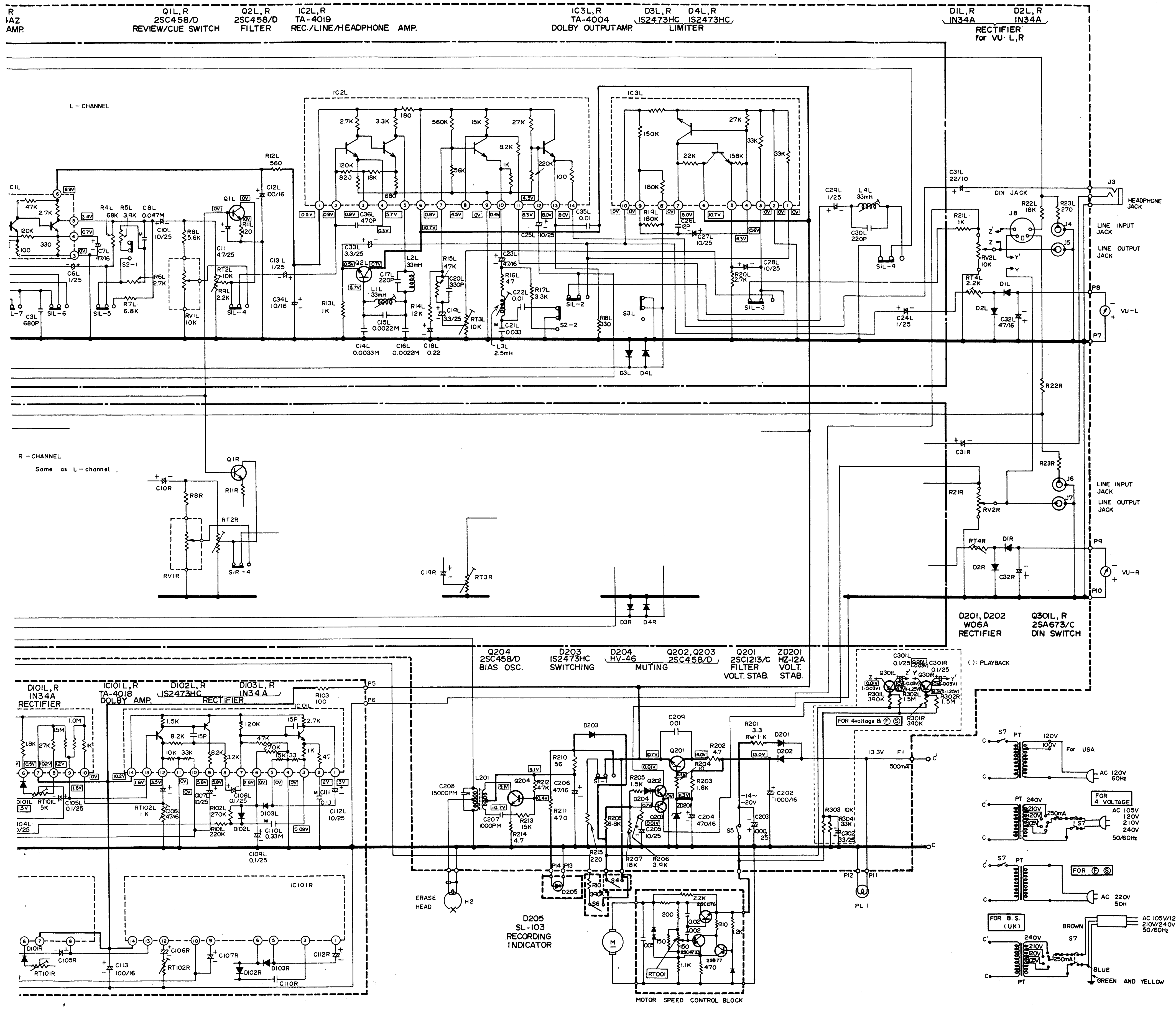


REPLACEMENT PARTS
ELECTLICAL PALTS

Symbol No.	Stock No.	Description		
CAPACITORS:				
C 1L,R	0249741	Ceramic, disc	3300pF±20%	
C 2L,R	0248732	Ceramic, disc	220pF±10%	
C 3L,R	0249725	Ceramic, disc	680pF±10%	
C 4L,R	0252615	Electrolytic	4.7μF	25V
C 5L,R	0249723	Ceramic, disc	470pF±10%	
C 6L,R	0252611	Electrolytic	1.0μF	25V
C 7L,R	0252525	Electrolytic	47μF	16V
C 8L,R	0275115	Mylar	0.047μF±20%	
C 10L,R	0252621	Electrolytic	10μF	25V
C 11	0252615	Electrolytic	4.7μF	25V
C 12L,R	0252531	Electrolytic	100μF	16V
C 13L,R	0252611	Electrolytic	1.0μF	25V
C 14L,R	0249741	Ceramic, disc	3300pF±20%	
C 15L,R	0249740	Ceramic, disc	2200pF±20%	
C 16L,R	0249740	Ceramic, disc	2200pF±20%	
C 17L,R	0248732	Ceramic, disc	220pF±10%	
C 18L,R	0256529	Electrolytic	0.22μF	25V
C 19L,R	0252613	Electrolytic	3.3μF	25V
C 20L,R	0249721	Ceramic, disc	330pF±10%	
C 21L,R	0275114	Mylar	0.033μF±20%	
C 22L,R	0249737	Ceramic, disc	10000pF±10%	
C 23L,R	0252525	Electrolytic	47μF	16V
C 24L,R	0252611	Electrolytic	1.0μF	25V
C 25L,R	0252621	Electrolytic	10μF	25V
C 26L,R	0248702	Ceramic, disc	12pF±10%	
C 27L,R	0252621	Electrolytic	10μF	25V
C 28L,R	0252621	Electrolytic	10μF	25V
C 29L,R	0252611	Electrolytic	1.0μF	25V
C 202	0256010	Electrolytic	1000μF	16V
C 203	0256074	Electrolytic	1000μF	25V
C 204	0252535	Electrolytic	470μF	16V
C 205	0252621	Electrolytic	10μF	25V
C 206	0252525	Electrolytic	47μF	16V
C 207	0249738	Ceramic, disc	1000pF±20%	
C 208	0275112	Mylar	15000pF±20%	
C 209	0249737	Ceramic, disc	10000pF±10%	
C 301L,R	0256520	Electrolytic	0.1μF	25V(W,FS)
C 302	0252613	Electrolytic	3.3μF	25V(W,FS)
C 30L,R	0248732	Ceramic, disc	220pF±10%	
C 31L,R	0252322	Electrolytic	22μF	10V
C 32L,R	0252525	Electrolytic	47μF	16V
C 33L,R	0252613	Electrolytic	3.3μF	25V
C 34L,R′	0252531	Electrolytic	10μF	16V
C 35L,R	0249737	Ceramic, disc	10000pF±10%	
C 36L,R	0249723	Ceramic, disc	470pF±10%	
C 101L,R	0268173	Mylar	3000pF±5%	
C 102L,R	0268175	Mylar	30000pF±5%	
C 103L,R	0268174	Mylar	4700pF±5%	
C 104L,R	0252621	Electrolytic	10μF	25V
C 105L,R	0256520	Electrolytic	0.1μF	25V
C 106L,R	0252525	Electrolytic	47μF	16V
C 107L,R	0252621	Electrolytic	10μF	25V
C 108L,R	0256520	Electrolytic	0.1μF	25V
C 109L,R	0256520	Electrolytic	0.1μF	25V
C 110L,R	0268172	Mylar	0.33μF±20%	
C 111L,R	0268166	Mylar	0.1μF±5%	
C 112L,R	0252621	Electrolytic	10μF	25V
C 113	0252531	Electrolytic	100μF	16V

SCHEMATIC DIAGRAM


IC1L,R D1044AZ PRE AMP.
Q1L,R 2SC458/D REVIEW/CUE SWITCH
Q2L,R 2SC458/D FILTER
IC2L,R TA-4019 REC./LINE/HEADPHONE AMP.
IC3L,R TA-4004 DOLBY OUTPUT AMP.
D3L,R D4L,R IS2473HC IS2473HC LIMITER
D1L,R IN34A
L-CHANNEL
R-CHANNEL
Same as L-channel
MIC. JACK
REC. PLAYBACK HEAD
Q101L,R 2SK40/C DOLBY PRE AMP.
D101L,R IN34A RECTIFIER
IC101L,R TA-4018 DOLBY AMP.
D102L,R IS2473HC RECTIFIER
D103L,R IN34A
Q204 2SC458/D BIAS OSC.
D203 IS2473HC SWITCHING
D204 HV-46 MUTING
Q202,Q203 2SC458/D
Q201 2SC1213/C FILTER VOLT. STAB.
ZD201 HZ-12A VOLT. STAB.
D201, D W06A RECTIFI
ERASE HEAD
D205 SL-103 RECORDING INDICATOR
MOTOR SPEED CONTROL BLOCK
FOR 4voltage & (F) (S)


Q1L,R 2SC458/D REVIEW/CUE SWITCH
Q2L,R 2SC458/D FILTER
IC2L,R TA-4019 REC./LINE/HEADPHONE AMP.
IC3L,R TA-4004 DOLBY OUTPUT AMP.
D3L,R D4L,R 1S2473HC 1S2473HC LIMITER
D1L,R D2L,R 1N34A 1N34A RECTIFIER for VU-L,R
L-CHANNEL
R-CHANNEL Same as L-channel
IC2L
IC3L
DIN JACK
J3 HEADPHONE JACK
J4 LINE INPUT JACK
J5 LINE OUTPUT JACK
J6 LINE INPUT JACK
J7 LINE OUTPUT JACK
VU-L
VU-R
D201, D202 W06A RECTIFIER
Q301L,R 2SA673/C DIN SWITCH
Q204 2SC458/D BIAS OSC.
D203 1S2473HC SWITCHING
D204 HV-46 MUTING
Q202, Q203 2SC458/D
Q201 2SC1213/C FILTER VOLT. STAB.
ZD201 HZ-12A VOLT. STAB.
D101L,R 1N34A RECTIFIER
IC101L,R TA-4018 DOLBY AMP.
D102L,R 1S2473HC RECTIFIER
D103L,R 1N34A
IC101R
( ): PLAYBACK
FOR 4 voltage & Ⓕ Ⓢ
ERASE HEAD
H2
D205 SL-103 RECORDING INDICATOR
MOTOR SPEED CONTROL BLOCK
M
RT001
S7 PT 120V For USA AC 120V 60Hz
FOR 4 VOLTAGE AC 105V 120V 210V 240V 50/60Hz
FOR Ⓕ Ⓢ AC 220V 50H
FOR B.S. (UK) BROWN BLUE GREEN AND YELLOW AC 105V/120V 210V/240V 50/60Hz
PL1
13.3V F1 500mA

NOTE

1. Voltage measured at base of chassis with minimum volume control and no signal.
2. Nomenclature of Rasistors and Capacitors.

RESISTORS

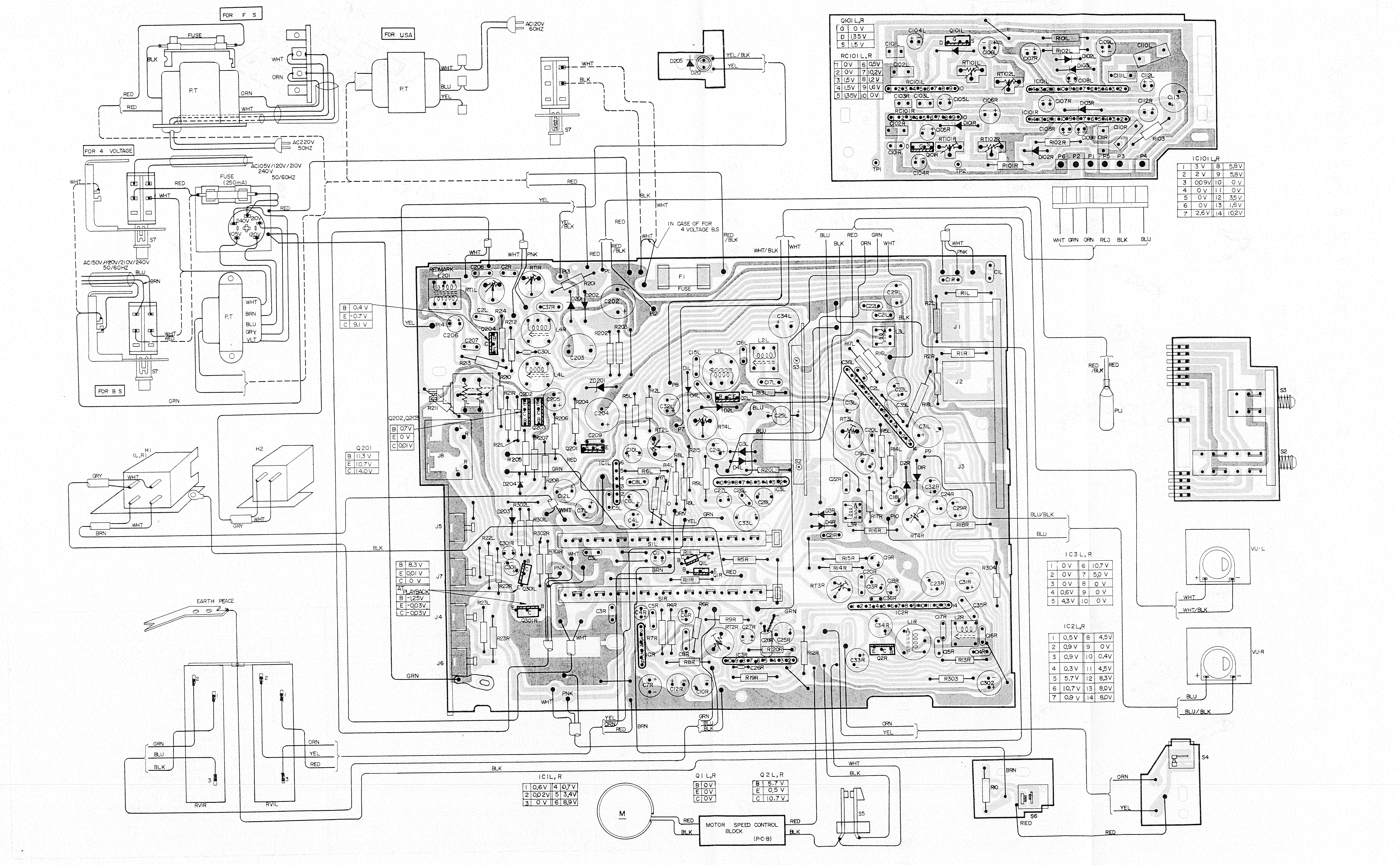
Value	No indicated : Ω K : 1000Ω
Wattage	No indicated : ¼W.
Tolerance	No indicated : ± 5% K : ±10%
Sort	No indicated : Carbon film RC : Composition RS : Metal oxide
Example	R101............Circuit No. 150............Value RS · I · K......Sort · Wattage · Tolerance

CAPACITORS.

Value	No indicated : μF P : pF	
Voltage	No indicated : 50WV	
Tolerance	No indicated : ±10% J : ± 5% M : ±20% Z : +80, −20% D : ±0.5pF C : ±0.25pF	
Sort	┤├	Ceramic
	+ −	Electrolitic
	M ┤├	Mylar
Example	+ −	C101......Circuit No. 10/25......Value/voltage ....Sort

3. Be sure to make your orders of resistors and capacitors with value, Voltage, tolerance and sort.

CIRCUIT BOARD DIAGRAM


FOR F S
FUSE
BLK
WHT
ORN
RED
P.T
FOR USA
AC120V 60HZ
BLU
YEL
S7
AC220V 50HZ
FOR 4 VOLTAGE
AC105V/120V/210V 240V 50/60HZ
FUSE (250mA)
240V
220V
120V
105V
AC150V/120V/210V/240V 50/60HZ
BRN
GRY
VLT
FOR B S
GRN
D205
D20
YEL/BLK
IN CASE OF FOR 4 VOLTAGE B.S
RED/BLK
WHT/BLK
PNK
REDMARK
L201
F1
FUSE
H1 (L,R)
H2
J1
J2
J3
J4
J5
J6
J7
J8
S1L
S1R
S2
S3
S4
S5
S6
S7
PL1
VU-L
VU-R
EARTH PEACE
RV1R
RV1L
M
MOTOR SPEED CONTROL BLOCK (P·C·B)
R10
IC1L
IC2R
IC3L
IC3R
IC101L
IC101R
Q101L
Q101R
Q1L
Q1R
Q2R
Q201
Q202
Q203
Q204
Q301L
Q301R
TP1
TP2
P1
P2
P3
P4
P5
P6
R103
C113
ZD201
D201
D202
D203
D204

Q101L,R

G	0V
D	1.35V
S	1.5V

RC101L,R

1	0V	6	0.5V
2	0V	7	10.2V
3	1.5V	8	1.2V
4	1.5V	9	1.6V
5	1.35V	10	0V

IC101L,R

1	3V	8	5.8V
2	2V	9	5.8V
3	0.09V	10	0V
4	0V	11	0V
5	0V	12	3.5V
6	0V	13	1.6V
7	2.6V	14	10.2V

B	0.4V
E	-0.7V
C	9.1V

Q202,Q203

B	0.7V
E	0V
C	0.01V

Q201

B	11.3V
E	10.7V
C	14.0V

B	8.3V
E	0.01V
C	0V
AT PLAYBACK	
B	-1.25V
E	-0.03V
C	-0.03V

IC3L,R

1	0V	6	10.7V
2	0V	7	5.0V
3	0V	8	0V
4	0.6V	9	0V
5	4.3V	10	0V

IC2L,R

1	0.5V	8	4.5V
2	0.9V	9	0V
3	0.9V	10	0.4V
4	0.3V	11	4.5V
5	5.7V	12	8.3V
6	10.7V	13	8.0V
7	0.9V	14	8.0V

IC1L,R

1	0.6V	4	0.7V
2	0.02V	5	3.4V
3	0V	6	8.9V

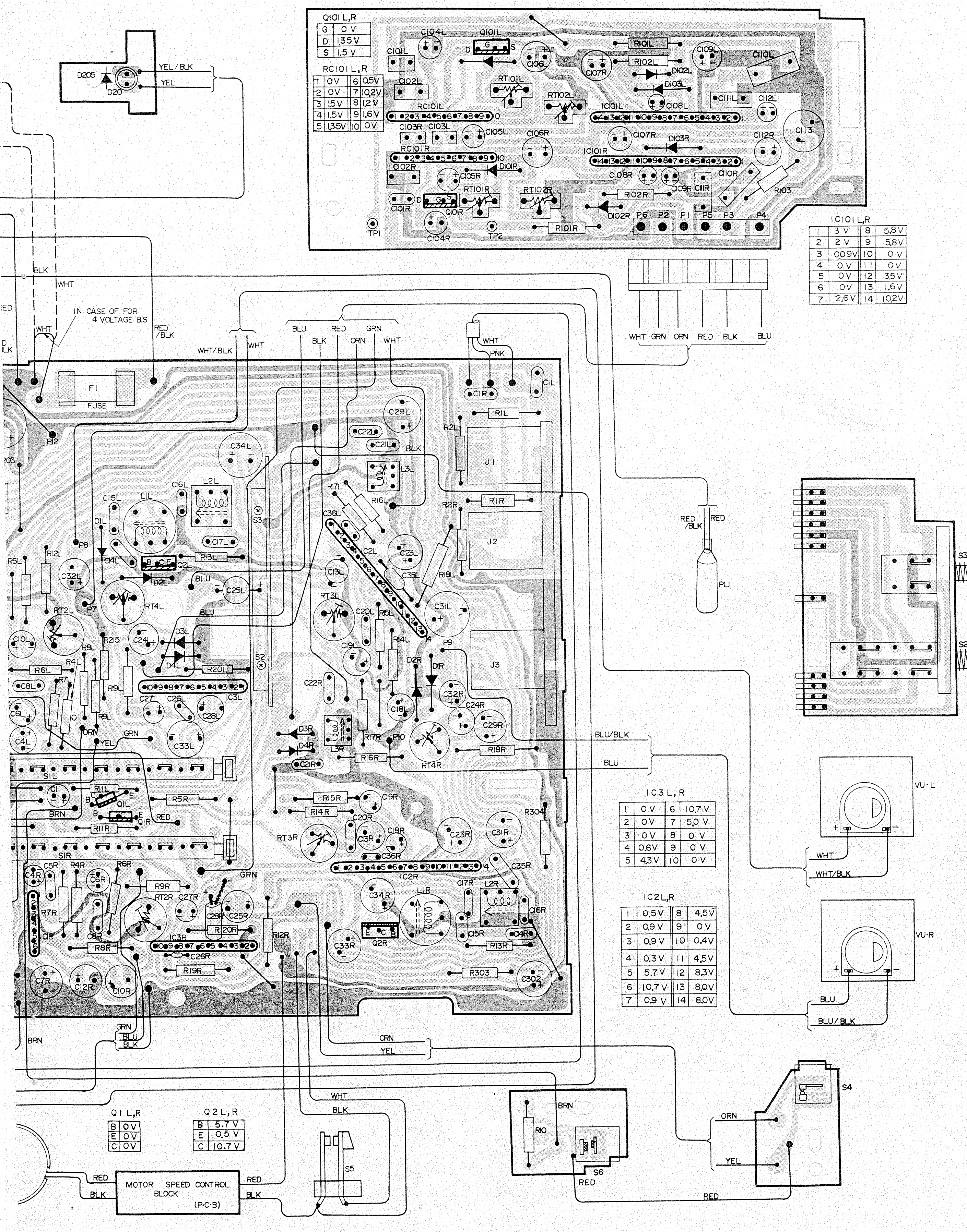
Q1L,R

B	0V
E	0V
C	0V

Q2L,R

B	5.7V
E	0.5V
C	10.7V

Symbol No.
RT 1L,R RT 2L,R RT 3L,R RT 4L,R RT 101L,
RT 102L, RC 101L, RV 1L,R RV 2L,R
Q 1L,R Q 2L,R Q 101L,R Q 201 Q 202
Q 203 Q 204 Q 301L,R
IC 1L,R IC 2L,R IC 3L,R IC 101L,
D 1L,R D 2L,R D 3L,R D 4L,R D 101L,R
D 102L,R D 103L,R D 201 D 202 D 203
D 204 D 205 ZD 201
PT PT PT
L 1L,R L 2L,R L 3L,R L 4L,R L 201
PL 1 S 7 S 7
S 8
S 4
S 6 S 1L,R J1~3 J4~7



Q101 L,R

G	0 V
D	1.35V
S	1.5 V

RC101 L,R

1	0V	6	0.5V
2	0V	7	10.2V
3	1.5V	8	1.2V
4	1.5V	9	1.6V
5	1.35V	10	0V

IC101 L,R

1	3 V	8	5.8V
2	2 V	9	5.8V
3	0.09V	10	0 V
4	0 V	11	0 V
5	0 V	12	3.5 V
6	0 V	13	1.6 V
7	2.6 V	14	10.2V

IC3 L,R

1	0 V	6	10.7 V
2	0 V	7	5.0 V
3	0 V	8	0 V
4	0.6V	9	0 V
5	4.3 V	10	0 V

IC2 L,R

1	0.5 V	8	4.5V
2	0.9 V	9	0 V
3	0.9 V	10	0.4V
4	0.3 V	11	4.5V
5	5.7 V	12	8.3V
6	10.7 V	13	8.0V
7	0.9 V	14	8.0V

Q1 L,R

B	0V
E	0V
C	0V

Q2 L,R

B	5.7 V
E	0.5 V
C	10.7 V

REPLACEMENT PARTS

ELECTLICAL PARTS

Symbol No.	Stock No.	Description	
		RESISTORS:	
RT 1L,R	0151889	Variable	100kΩ(B)
RT 2L,R	0151886	Variable	10kΩ(B)
RT 3L,R	0151886	Variable	10kΩ(B)
RT 4L,R	0151884	Variable	2.2kΩ(B)
RT 101L,R	0151871	Variable	5kΩ(B)
RT 102L,R	0151869	Variable	1kΩ(B)
RC 101L,R	5068031	CR pack	
RV 1L,R	5023003	Volume	10kΩ(A)
RV 2L,R	0151438	Volume	10kΩ(A)
		SEMI-CONDUCTOR	
Q 1L,R	5320064	Transistor	2SC458D
Q 2L,R	5320064	Transistor	2SC458D
Q 101L,R	5320583	Transistor	2SK40C
Q 201	5320613	Transistor	2SC1213C
Q 202	5320064	Transistor	2SC458D
Q 203	5320064	Transistor	2SC458D
Q 204	5320064	Transistor	2SC458D
Q 301L,R	5320593	Transistor	2SA673C
IC 1L,R	5353201	IC	D-1044
IC 2L,R	5356261	IC	TA-4019
IC 3L,R	5356051	IC	TA-4004
IC 101L,R	5356251	IC	TA-4018
D 1L,R	0575001	Diode	1N34A
D 2L,R	0575001	Diode	1N34A
D 3L,R	5330572	Diode	1S2473
D 4L,R	5330572	Diode	1S2473
D 101L,R	5330721	Diode	1N34A
D 102L,R	5330572	Diode	1S2473
D 103L,R	5330721	Diode	1N34A
D 201	5330341	Diode	WO6A
D 202	5330341	Diode	WO6A
D 203	5330572	Diode	1S2473
D 204	5340022	Diode	HV46D
D 205	5380051	Diode	SL103
ZD 201	5330531	Zener diode	HZ-12A
		TRANSFORMERS:	
PT	5211353	Power trans. (UL)	
PT	5211364	Power trans. (BS) (W)	
PT	5211552	Power trans. (FS)	
		COILS:	
L 1L,R	5270001		
L 2L,R	5120302		
L 3L,R	5120274		
L 4L,R	5270001		
L 201	5260216		
	5554038	VU Meter (W,FS,BS)	
	5554037	VU Meter (UL)	
PL 1	5762061	Lamp	
S 7	5639203	Push switch (UL,FS)	
S 7	5632672	Push switch (BS,W)	
	5746301	Power cord (UL)	
	5746154	Power cord (FS,W)	
	5746291	Power cord (BS)	
S 8	5639023	Rotary switch (BS,W)	
	5721012	Fuse 250mA (BS,W)	
	5720173	Fuse 500mA (FS)	
	5441442	Record/playback head	
	5441382	Erase head	
	5572221	Motor	
S 4	5632712	Leaf switch	
S 6	5603091	Leaf switch	
S 1L,R	5621383	Slide switch	
J1~3	5679181	Mic. & phone jack	
J4~7	5676121	INPUT & OUTPUT jack	

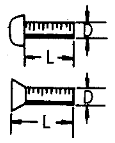
Symbol No.	Stock No.	Description	
J 8	5651141	DIN socket	
		Fuse	500mA(T)
S3.2	5639204	Push switch	
		ACCESSORY:	
	5746141	Patch cord (UL)	
	5744842	DIN cord (FS,BS,W)	
	7715363	Cleaning bar	
	5662021	E. socket adaptor (W)	

Hardware nomenclature

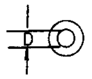
P	Pan head screw	BT	Binding head Tapping screw	
F	Flat countersunk head screw	BL	Bolt	
B	Binding head screw	W	Washer	◎
T	Round head tapping screw	E	"E" ring	

Example

Type of head
P 3 × 8
Length in mm (L)
Diameter in mm (D)



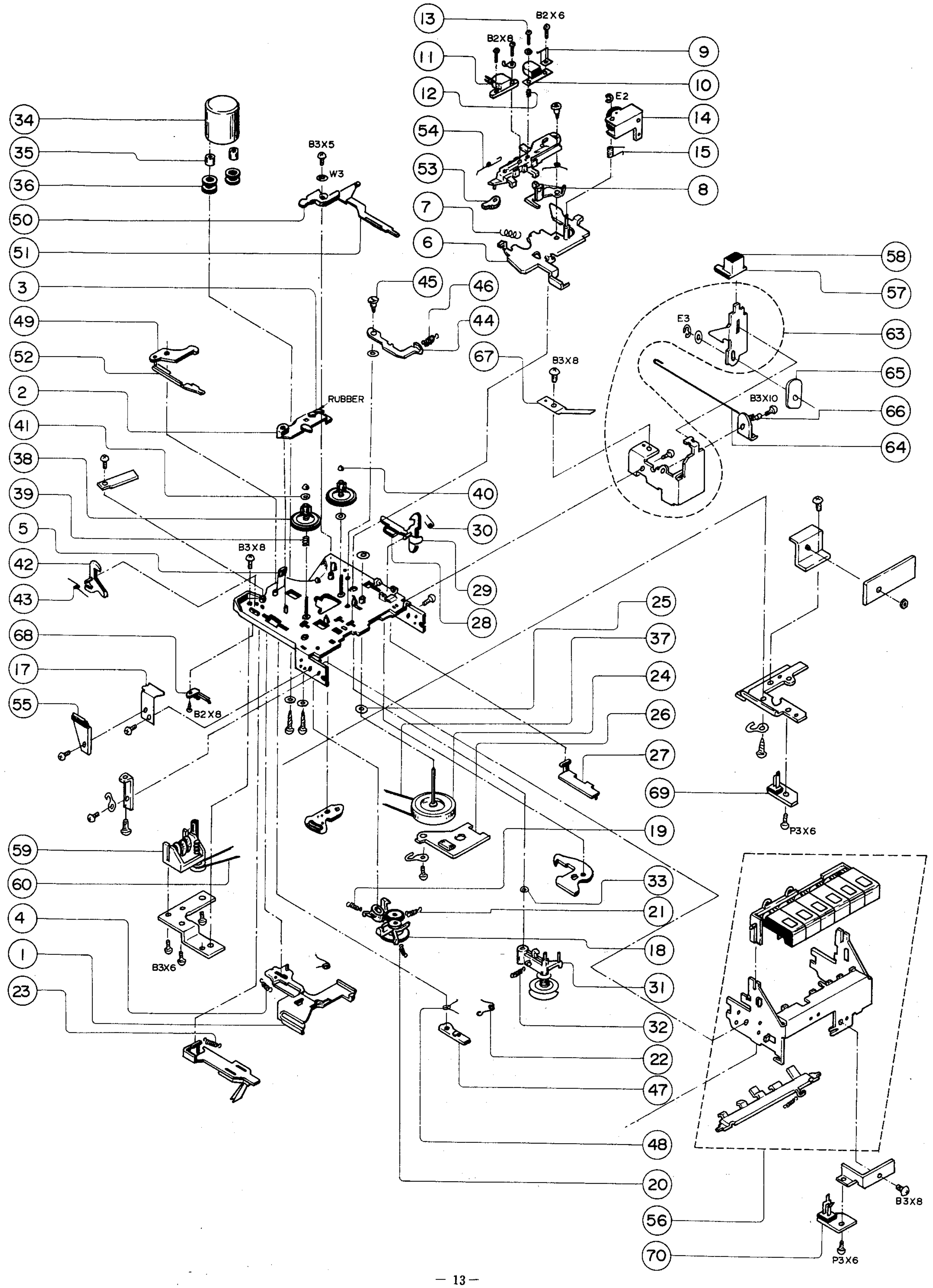
Washer
W 2.6
Diameter in mm (D)



When ordering hardware excluding stated on these lists, be sure to make your orders with type and size.

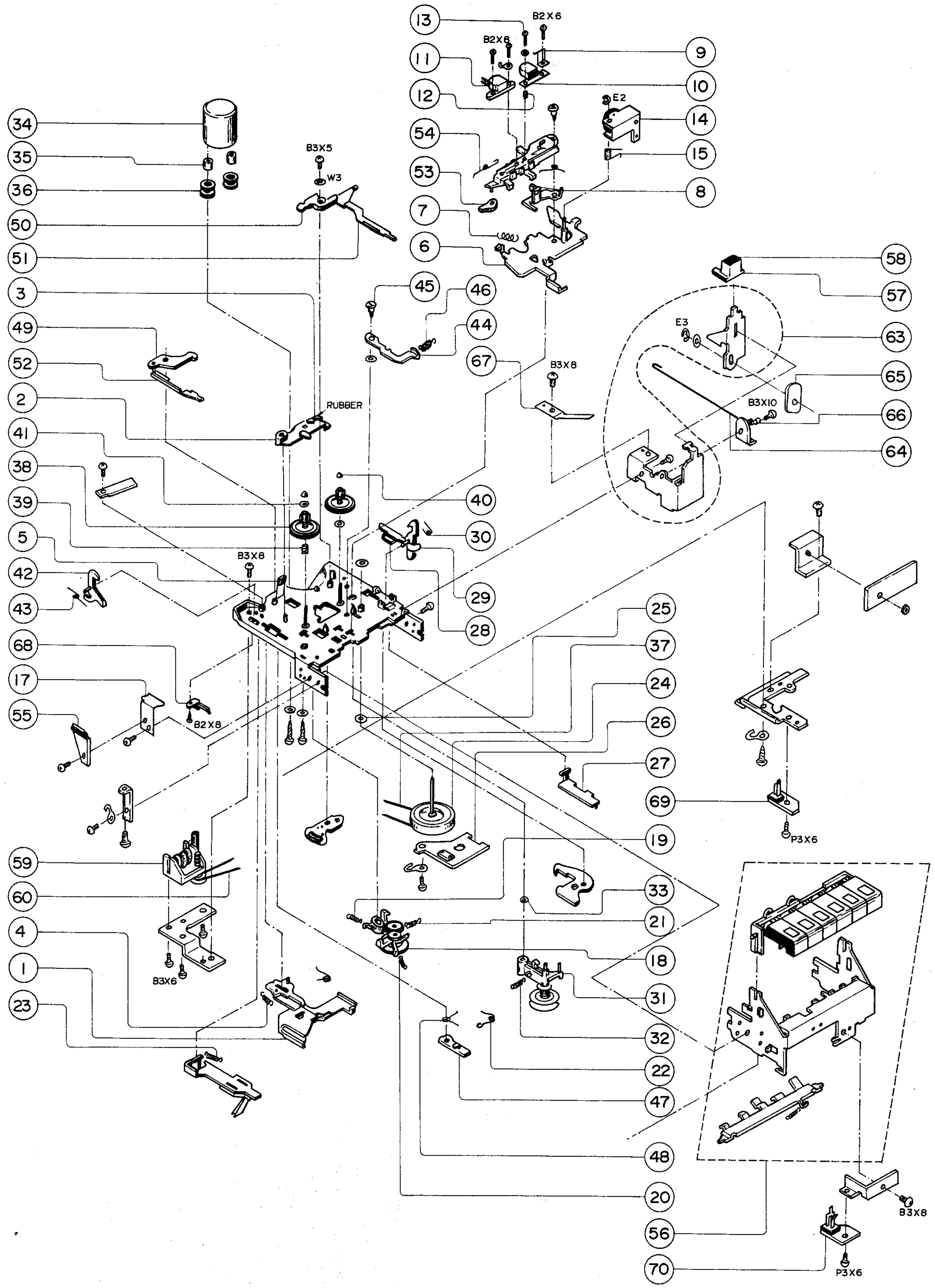
CASSETTE TAPE DECK PARTS

Index No.	Stock No.	Description
1	6731542	Brake fanction plate
2	6732081	Brake plate
3	6560131	Brake piece
4	6300371	Spring
5	6731511	Cassette holder cue
6	7265692	Head plate assembly
7	6324432	Spring
8	6733052	Pick up piece
9	6327571	Cassette guide
10	**5441442**	**Record/playback head**
11	**5441382**	**Erase head**
12	6321731	Spring
13	7780555	Screw
14	**6383041**	**Pinch roller assembly**
15	6306615	Spring
16	6300281	Spring
17	6327402	Head stand holder
18	6411584	Pulley assembly
19	6325261	Spring
20	6300561	Spring
21	6300571	Spring
22	6306542	Spring
23	6300371	Spring
24	6372133	Flywheel assembly
25	7778856	Polyester washer
26	7159121	Flywheel supporting assembly
27	6730621	Eject slider
28	6131561	Eject arm
29	6731611	Lock piece
30	6306534	Spring
31	**6411361**	**Take up arm assembly**
32	6321684	Spring
33	7779791	Polyester washer
34	**5572221**	**Motor**
35	7574172	Collar
36	6576082	Rabber pad
37	**6350621**	**Moter belt**
38	7667666	Turntable assembly
39	6320731	Spring
40	0930002	Cap
41	0948831	Polyester washer
42	6731581	Recording prevention lever
43	6306571	Spring
44	7264163	Lock lever cue
45	7536871	Lock lever pin
46	6303077	Spring
47	6731361	Recording prevention lever cue
48	6306552	Spring
49	6732071	Cue lever (L)
50	6732091	Cue lever (R)
51	7268833	Cue function plate (R)
52	7264192	Cue function plate (L)
53	6731852	Lever
54	6306582	Spring
55	6586032	Rubber
56	6255362	Button assembly
57	6735991	Pause button
58	6259201	Button cap
59	5551703	Counter
60	6354291	Counter belt
61	6327912	Spring
62	6327972	Spring
63	7276391	Pause lock holder assembly
64	6309321	Pause joint wire
65	6725701	Pause lock piece
66	6343114	Roller
67	6327942	Spring
68	5603111	Leaf switch
69	5603091	Leaf switch
70	5632712	Leaf switch

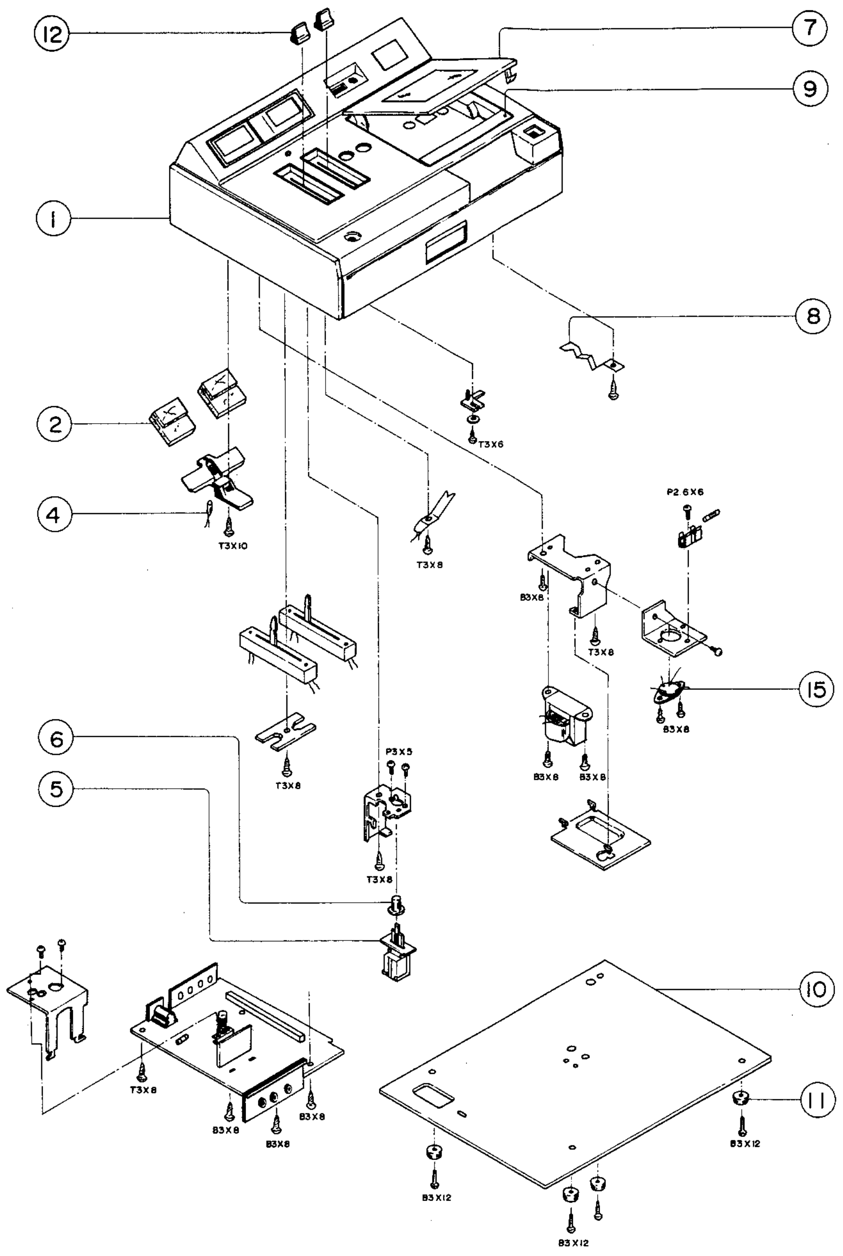


CASSET

Symbol No.	St N
1	613
	613
2	555
	555
	766
4 PL 1	576
5 S 7	563
S 7	563
6	625
7	609
8	632
9	673
	753
10	619
	619

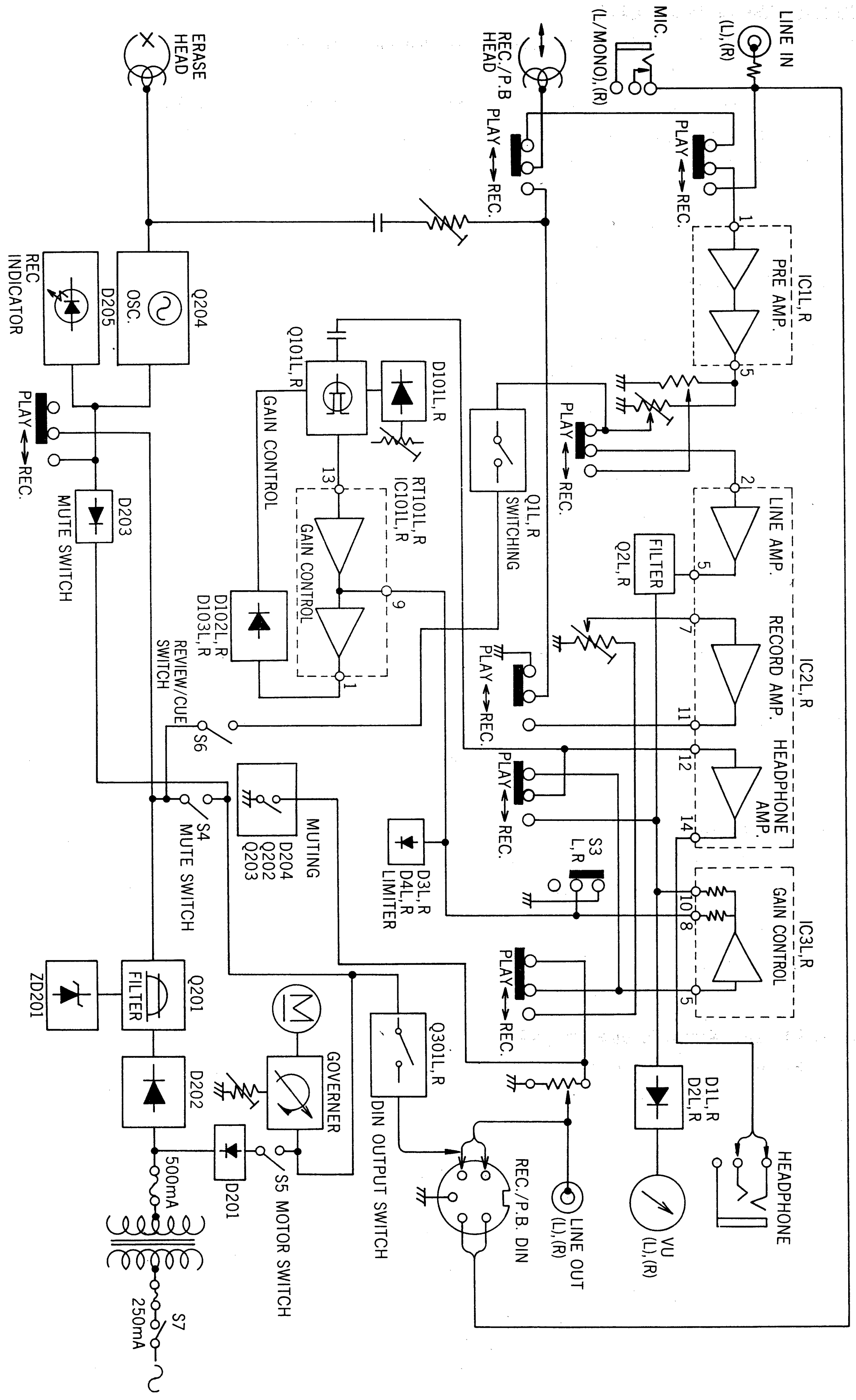

13
B2X6
B2X6
11
12
9
10
E2
14
15
54
53
8
7
6
34
35
36
50
51
B3X5
W3
3
49
52
2
RUBBER
41
38
39
5
42
43
B3X8
45
46
44
67
B3X8
58
57
63
E3
65
66
B3X10
64
40
30
29
28
25
37
24
26
27
69
P3X6
68
17
55
B2X8
59
60
4
B3X6
1
23
19
33
21
18
31
32
22
47
48
20
56
70
B3X8
P3X6

CASSETTE TAPE DECK EXPLODED VIEW


12
7
9
1
8
2
T3X6
4
T3X10
T3X8
P2.6X6
B3X8
T3X8
15
B3X8
6
5
T3X8
P3X5
T3X8
B3X8
B3X8
10
T3X8
B3X8
B3X8
B3X8
11
B3X12
B3X12
B3X12

Symbol No.	Stock No.	Description	Symbol No.	Stock No.	Description
for Final assembly				6192413	Bottom plate assembly (FS)
				6192414	Bottom plate assembly (W)
1	6135113	Front case assembly (UL)	11	6573003	Rubber leg
	6135114	Front case assembly (W,FS,BS)		6735991	Pause button
2	5554038	VU Meter (W,FS,BS)		6259201	Button cap
	5554037	VU Meter (UL)		7669707	Meter cushion
	7667833	Cashion for motor	12	6295093	Slide knob
4 PL 1	5762061	Lamp		5746301	Power cord (UL)
5 S 7	5639203	Push switch (UL,FS)		5746154	Power cord (FS,W)
S 7	5632672	Push switch (BS,W)	13	5746291	Power cord assembm embly (BS)
6	6259131	Push switch knob	14	6794011	Bushing (BS)
				0043793	Bushing (FS,UL,W)
7	6090285	Cassette lid	15 S 8	5639023	Rotary switch (BS,W)
8	6327902	Spring for cassette lid			
9	6735701	Head cover		5721012	Fuse (250mA) (BS,W)
	7530328	Columm (1req'd) for counter holder mounting		0711306	Pan head screw 2.6㎜ϕ×6㎜ (1req'd) for fuse holder mounting
10	6192415	Bottom plate assembly (BS)		5720173	Fuse (500mA) (FS)
	6192411	Bottom plate assembly (UL)			

BLOCK DIAGRAM


LINE IN (L),(R)
MIC. (L/MONO),(R)
REC./P.B HEAD
ERASE HEAD
PLAY ↔ REC.
IC1L,R PRE AMP.
1
5
Q204 OSC.
D205
REC INDICATOR
D101L,R
Q101L,R
GAIN CONTROL
RT101L,R
IC101L,R
GAIN CONTROL
13
9
1
D102L,R
D103L,R
Q1L,R SWITCHING
IC2L,R
LINE AMP.
RECORD AMP.
HEADPHONE AMP.
2
5
7
11
12
14
FILTER
Q2L,R
D203
MUTE SWITCH
REVIEW/CUE SWITCH
S6
S4
MUTE SWITCH
MUTING
D204
Q202
Q203
D3L,R
D4L,R
LIMITER
S3 L,R
IC3L,R
GAIN CONTROL
10
8
5
Q201
FILTER
ZD201
D202
500mA
D201
S5 MOTOR SWITCH
S7
250mA
GOVERNER
Q301L,R
DIN OUTPUT SWITCH
REC./P.B. DIN
LINE OUT (L),(R)
D1L,R
D2L,R
VU (L),(R)
HEADPHONE

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